

ARTIFACT SHEET

Enter artifact number below. Artifact number is application number + artifact type code (see list below) + sequential letter (A, B, C. . .) The first artifact folder for an artifact type receives the letter A, the second B, etc. . . Example: 59 123 456 PA, 59 123 456 PB, 59 123 456 ZA, 59 123 456 ZB

09835926 ZA

Indicate quantity of a single type of artifact received but not scanned. Create individual artifact folder/ box and artifact number for each Artifact Type.

☐

CD(s) containing:

Computer program listing

Doc Code: Computer

☐

Artifact Type Code: P

Pages of specification and / or
sequence listing and /or table

Doc Code: Artifact

☐

Artifact Type Code: S

Content unspecified or combined

Doc Code: Artifact

☐

Artifact Type Code: S

☐

Staple Set(s) Color Documents or B / W Photographs

Doc Code: Artifact Artifact Type Code: C

☐

Microfilm(s)

Doc Code: Artifact Artifact Type Code: F

☐

Video tape(s)

Doc Code: Artifact Artifact Type Code: V

☐

Model(s)

Doc Code: Artifact Artifact Type Code: M

☐

Bound Document(s)

Doc Code: Artifact Artifact Type Code: B

☐

Confidential Information Disclosure Statement or Other Documents
marked Proprietary, Trade Secrets, Subject to Protective Order,
Material Submitted under MPEP 724.02, etc.

Doc Code: Artifact Artifact Type Code: X

☒

Other, description:

Priority Document

Doc Code: Artifact Artifact Type Code: Z

00-214816-25
2-24F-12



America



The Commissioner of
Patents and Trademarks

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

2. Todd Johnson

Commissioner of Patents and Trademarks

Margaret Campbell-Jones

Attest

10996 U.S. PTO
09/835926





US006026679A

United States Patent [19]

[11] Patent Number: 6,026,679

Holmes et al.

[45] Date of Patent: Feb. 22, 2000

[54] METHOD TO INFER ENGINE COOLANT TEMPERATURE IN CYLINDER HEAD TEMPERATURE SENSOR EQUIPPED VEHICLES

[75] Inventors: John William Holmes, Eastpointe; Michael John Cullen, Northville; Randall Adam Betki, Grosse Ile, all of Mich.

[73] Assignee: Ford Global Technologies, Inc., Dearborn, Mich.

[21] Appl. No.: 09/037,508

[22] Filed: Mar. 10, 1998

[51] Int. Cl.⁷ G01L 3/26; G01K 1/08; B60Q 1/00; F01P 5/14

[52] U.S. Cl. 73/117.3; 73/116; 374/145; 340/449; 123/41.15

[58] Field of Search 73/116, 117.3; 123/41.15; 340/449, 439; 374/144, 145

[56] References Cited

U.S. PATENT DOCUMENTS

4,393,365	7/1983	Kondo et al.	
4,984,454	1/1991	Feller et al.	
5,020,007	5/1991	Wu et al.	
5,201,840	4/1993	Sausnet et al.	374/145
5,669,337	9/1997	Drouillard	

Primary Examiner—William Oen

Attorney, Agent, or Firm—Steven A. Maynard

[57] ABSTRACT

The present invention provides a method of inferring the engine coolant temperature in cylinder head temperature sensor equipped vehicles including the steps of measuring the cylinder head temperature, calculating the engine coolant temperature from the measured cylinder head temperature as a function of at least one vehicle operational state, generating a signal for the calculated engine coolant temperature, and sending the generated signal to a display.

18 Claims, 2 Drawing Sheets

